

Residential Plans Review Checklist

BUILDING GENERAL:

- DESIGN LOAD [Table R301.2(1)]
 - Floor Live Load _____ psf
 - Roof Live Load _____ psf
 - Ground Snow Load _____ psf
 - Basic Wind Speed _____ mph (3-second gust)
 - Wind Exposure Category _____
- PLAT PLAN:
 - Less than or equal to 3' from property line-1 hour fire-resistance rating; no openings permitted
 - Less than or equal to 5' but greater than 3' from property line-1 hour fire-resistance rating; 25% of wall area permitted to be unprotected openings.
 - Aircraft noise zone
- GLAZING (R308)
 - Safety glazing locations
 - Skylight and sloped glazing
- GARAGES AND CARPORTS (R309)
 - Garage does not open into a sleeping area
 - Door between garage and residence-1 3/8" solid core or 20-minute fire-resistance rated
 - Garage floor - noncombustible; slopes to main door
 - 1/2" gypsum board on garage side between residence and garage
 - 5/8" gypsum board on ceiling and loadbearing walls of garage with habitable space above
- EGRESS (R310 THRU R316)
 - Exit door (minimum 3'- 0" X 6'- 8")
 - Exit hallway (minimum 3'- 0" width)
 - Stairways
 - Minimum width (3'- 0")
 - 8 1/4" maximum riser; 9" minimum tread width
 - Headroom (minimum 6'- 8" from nosing)
 - Landing (minimum 36" in the direction of travel)
 - Winder, spiral, circular
 - Illumination
 - Under stair protection (1/2" gypsum board on all exposed framing)
 - Handrail (34" – 38" high; 4" picket spacing)
 - Guardrail (porches, balconies, open side of stairs or raised floors >30") 34" – 36" high, 4" picket spacing
- SMOKE ALARMS (R317)
 - Location and power source
- DWELLING UNIT SEPARATION (R321)
 - Two family dwelling (1-hour fire-resistance rating)
 - Townhouse (2-hour fire-resistance rating)
 - Continuity
 - Structural independence
 - Penetration protection
- MOISTURE VAPOR RETARDERS (R322)
- FLOOD RESISTANT CONSTRUCTION (R 327.1)
 - Hazard area (A zone or V zone)
 - Elevation certification
 - Electrical/mechanical equipment location

FOUNDATION:

- CONCRETE COMPRESSIVE STRENGTH (R403.2)
- FOOTING (R403)
 - Soil type and bearing
 - Minimum width (Table R403.1)
 - Edge thickness (6" minimum; projection 2" minimum but not greater than footing thickness)
 - Depth below grade
 - Foundation anchorage (R403.1.6)
- FOUNDATION WALL (R404 THRU R406)

Masonry wall (maximum height; minimum thickness; reinforcing size and spacing)
Sill plate size (anchor bolt ½" diameter, 7" embedment, 6'- 0" o.c. maximum, 12" from corners)
ICF (R404.4)

- COLUMNS (R407)
 - Decay and corrosion protection
 - Structural requirements
 - Anchorage
 - Wood columns (minimum 4" square; R407.3)
 - a. Steel columns (minimum 3" diameter, standard weight; R407.3)
- UNDERFLOOR SPACE (R408)
 - Ventilation (1 square foot / 150 square feet of space; one opening 3 feet from each corner)
 - Access (minimum 18" x 24" or Mechanical requirement)
 - Flood resistance (R408.6)

FLOORS:

- WOOD JOIST AND GIRDERS (R 502)
 - Live load (sleeping areas-30psf; nonsleeping areas-40psf)
 - Girder and header span [exterior bearing walls-Table R502.5.(1); interior bearing walls-Table R502.5.(2)]
 - Joists under bearing partitions
 - Bearing (1 1/2" minimum on wood or metal; 3" on masonry or concrete); joist lapped 3"
 - Pre-engineered floor system (registered design professional)
 - Draftstopping
 - Sheathing
 - Insulation (R-19 minimum)
 - Slab-on-grade
 - Thickness (3 1/2" minimum; concrete strength)
 - Subgrade (8" maximum earth fill; 24" sand and gravel)
 - Vapor retarder (6 mil minimum between slab and fill)
 - Insulation (R-4.5; 24" total length)

WALLS:

- WINDOWS IN WIND BORNE DEBRIS REGIONS (R301.2.1.2)
- WOOD CONSTRUCTION (R602)
 - Stud spacing (2-stories or less- 2X4 @ 16" o.c.; over 2-stories- 2X6 @ 16" o.c. or 2X4 @ 12" o.c.)
 - Interior bearing walls
 - Headers
 - Fireblocking
 - Braced walls (R602.10.1 & 602.10.4)
- STEEL WALL FRAMING (R603)
- SHEATHING (R604 & R605)
- MASONRY CONSTRUCTION (R606 THRU R610)
 - Design
 - Grouted masonry
 - Glass unit masonry
- INSULATING CONCRETE FORM WALL CONSTRUCTION (R611)
 - Design
 - Type of ICF
 - Construction requirements
- WINDOWS AND DOORS (R613)
 - Performance (fire rating; STC, U-value)
- INSULATION
 - Minimum R-value (R-13)

ROOF-CEILING:

- ROOF FRAMING (R802)
 - Rafter tie (4'- 0" o.c.)
 - Purlins (2X4 @ 4'- 0" o.c.)
 - Bearing (1 ½" on wood or metal; 3" on masonry or concrete)
 - Pre-engineered elements (registered design professional)

Hurricane ties (each end of each rafter or truss)

- CEILING JOISTS [Tables R802.4(1), R802.4(2)]
Design loads (without storage- 10psf; with storage- 20psf)
Span, spacing and size
- RAFTERS [Tables R802.5.1(1) thru R802.5.1(8)]
Design loads (ground snow- 15psf; live load 20psf with or without ceiling attached)
Span, spacing and size
- SHEATHING (R803.2)
Thickness
FRTW (reduced spans)
- STEEL FRAMING (R804)
- ROOF VENTILATION (R806)
Minimum area (1 square foot / 150 square feet of attic area or 1 square foot / 300 square feet of roof area with high and low vents)
- ACCESS (R807)
Minimum size (22" X 30")
- INSULATION (R906)
Minimum R-value (R-23 at ceiling joists; R-30 for cathedral ceiling)
- WEATHER PROTECTION (R903)
Flashing
Roof drainage
- ROOF COVERINGS (R905)

CHIMNEYS AND FIREPLACES:

- Masonry fireplace (R1003)
- Factory built fireplace (R1004)

ENERGY CONSERVATION:

- Building envelop (N1102)
- Mechanical systems (N1103)
- Service water heating (N1104)